

1762

PATENT
Atty. Dkt. AMAT/6303/CPI/COPPER/PJS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:
Chung, et al.

Serial No.: 09/965,370

Confirmation No.: 6507

Filed: September 26, 2001

For: Integration of Barrier Layer
and Seed Layer

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Group Art Unit: 1762

Examiner: Eric B. Fuller

MAIL STOP AMENDMENT
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CERTIFICATE OF MAILING 37 CFR 1.8	
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Dear Sir:

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The Applicants, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

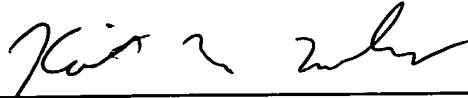
While the information submitted in this Supplemental Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Supplemental Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

The patents and/or publications submitted herewith are set forth on the attached Form PTO-1449.

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/AMAT/6303/KMT.

Respectfully submitted,



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PTO/SB/08a (08-03)

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		Number-Kind Code ² (if known)			
	A1	US-6686271 B2	02/03/2004	Raaijmakers, et al.	
	A2	US-6660660 B2	12/09/2003	Haukka, et al.	
	A3	US-6632279 B1	10/14/2003	Ritala, et al.	
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Sheet 2

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Sheet 1 of 9

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Application Number	09/965,370
Filing Date	September 26, 2001
First Named Inventor	Chung, et al.
Group Art Unit	1762
Examiner Name	Eric B. Fuller
Attorney Docket Number	AMAT/6303/CPI/COPPER/PJS
Submission Date	August 27, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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	A141	US-20020117399 A1	08/29/2002	Chen, et al.	
	A142	US-20020115252 A1	08/22/2002	Haukka, et al.	
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Application Number

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Group Art Unit

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Examiner Name

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Attorney Docket Number

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	B1	EP 1,142,894 A2	10/10/2001	Morman, et al.		
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	B19	WO 02/43115 A2	05/30/2002	Pomarede, et al.		
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	B22	WO 03/044242 A2	05/30/2003	Chen, et al.		

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	C1	Applied. Phys. Lett. 71 (25), December 22, 1997 (3604-6)	
	C2	Chang-Wook, et al. "Growth and Characterization of Aluminum Oxide (Al ₂ O ₃) Thin Films by Plasma-Assisted Atomic Layer Controlled Deposition," J. Korean Inst. Met. Mater., Vol. 38, No. 10, Oct. 2000 pp.1395-1399	
	C3	Clark-Phelps, et al. "Engineered Tantalum Aluminate and Hafnium Aluminate ALD Films for Ultrathin Dielectric Films with Improved Electrical and Thermal Properties," Mat. Res. Soc. Symp. Proc. Vol. 670 (2001)	
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	C12	Martensson, <i>et al.</i> "Cu ₂ as Copper Source in Atomic Layer Epitaxy," Chemical Vapor Deposition. Proceedings of the Fourteenth International Conference and EUROCVI-11 (1997), pp. 1529-36	
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	C25	PCT Written Opinion for PCT/US02/28715 DATED July 28, 2004 (AMAT/6303-PCT)	

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